



# WePlaySmart® STEM Connections

Multi-touch table activities that bring STEM into the Pre-K Classroom

## What is WePlaySmart?

WePlaySmart consists of a Hatch Interactive Table loaded with an Activity Package that includes 275+ research-based games that provide opportunities for children to develop critical social/emotional skills in a variety of environments.

The WePlaySmart system allows for interactive play with two to four children. The children engage in cooperative play while collaborating, problem solving and progressing in social/emotional skill areas. If a child does not have a friend to play with, WePlaySmart will automatically log the child into the Music-themed Free Play area.

## WePlaySmart STEM Connection

The U.S. Department of Education expanded the STEM (Science, Technology, Engineering and Mathematics) initiative into preschool in 2012. This expansion was based on the principle that young children should engage in these concepts before kindergarten. Not only is the content of STEM important but the scientific principle itself is equally important to support STEM in the classroom. The areas are prediction, collaboration, problem solving, and cooperation to name a few.

Below is a list of STEM concepts children will play on the WePlaySmart table. As children play these games, they will experience prediction, collaboration, problem solving and cooperation. And most obvious, the table is the state-of-the-art piece of technology hardware. It has been child tested for durability and appropriateness. The reach of children was measured to ensure appropriate accessibility of children at different development stages.

## WePlaySmart STEM Activity List

### Magnets & Robots

Refrigerator Magnet Sort 1  
Refrigerator Magnet Sort 2  
Refrigerator Magnet Sort 3  
Refrigerator Magnet Sort 4  
Toy Robot Puzzle

### Nutrition

Breakfast Vote  
Dinner Vote  
Fall Feast Uncover  
Healthy Lunch Uncover  
Hiking Snacks Find  
Lunchbox Uncover  
Number Soup Find

### Animals, Insects, Dinosaurs & Wildlife

Ant Farm Puzzle  
Ant Trail Picnic Pattern 1  
Ant Trail Picnic Pattern 2  
Aquarium Design Vote 1  
Aquarium Design Vote 2  
Aquarium Design Vote 3  
Baby Sea Creatures Sort 1  
Baby Sea Creatures Sort 2  
Bear Pattern  
Bird & Butterfly Sort  
Black Bear Taiga Puzzle  
Butterfly Color Sort  
Butterfly Species Sort

Classroom Pets Sort 1  
Classroom Pets Sort 2  
Coral Reef Counting Find  
Coral Reef Find 1  
Coral Reef Find 2  
Coral Reef Find 3  
Deer Pattern  
Dinosaur Bone Uncover  
Dog Adoption Vote 1  
Dog Adoption Vote 2  
Eagle Taiga Puzzle  
Elephant Footprint Pattern  
Fishing Pond Uncover 1  
Fishing Pond Uncover 2  
Fox Puzzle

Ladybug Sort  
Lion Pattern  
Magic Butterfly Sort  
Ocean Animal Pattern 1  
Ocean Animal Pattern 2  
Ocean Animal Pattern 3  
Ocean Animal Pattern 4  
Ocean Animal Pattern 5  
Penguin Island Puzzle  
Penguin Nest Puzzle  
Penguin Pattern  
Pet Adoption Sort 1  
Pet Adoption Sort 2  
Pet Adoption Sort 3  
Pond Cleanup Uncover

## How will Children Interact with WePlaySmart?

There are four main environments: **Our Home & School, Our Community, Our World and Beyond Our World.**

WePlaySmart includes six different types of games:

- 1. Uncovering** (Example: children work together to move leaves as they uncover rainforest birds)
- 2. Sorting** (Example: children work together to sort different colored garden gnomes)
- 3. Finding** (Example: children search for butterflies with patterned wings)
- 4. Connecting- puzzles or patterns** (Example: children create a pattern using blocks on a circle time rug)
- 5. Voting** (Example: children will vote on a variety of options as they move through different adventures)
- 6. Turn-Taking** (Example: children take turns answering multi-choice questions)

Fun characters provide directions and encouragement to the children as they play. Each game includes specific instructions, which serve as a tutorial for the children.

Finally, each game is associated with a social/emotional skill. This skill is named in the corner of the table.

## Contact Us

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## WePlaySmart® STEM Connections

Multi-touch table activities that bring STEM into the Pre-K Classroom

### Animals, Insects, Dinosaurs & Wildlife Cont.

Rainforest Animals Uncover  
Rainforest Birds Uncover 1  
Rainforest Birds Uncover 2  
Taking Turns: Sea Turtle Journey  
Taking Turns: Sea Turtle Journey 2  
Taking Turns: Sea Turtle Journey 3  
Taking Turns: The Classroom Fish  
Taking Turns: The Hamster's Journey  
Tree Bark Insect Uncover 1  
Tree Bark Insect Uncover 2  
Tree Bark Insect Uncover 3  
Wildlife Photo Vote 1  
Wildlife Photo Vote 2  
Wildlife Photo Vote 3  
Winged Bug Sort  
Woodland Creature Sort 1  
Woodland Creature Sort 2  
Woodland Creature Sort 3  
Woodland Insect Find 1  
Woodland Insect Find 2  
Zebra Footprint Pattern

### Recycling & Ecology

Lake Cleanup Sort 1  
Lake Cleanup Sort 2  
Lake Recycle Numeral Sort  
Nature Hike Vote 1  
Nature Hike Vote 2  
Recycle Bottles & Cans Uncover  
Recycling Cardboard & Cans Uncover  
Recycling Sculpture Puzzle

### Space

Asteroid Counting Uncover  
Asteroid Letters Uncover  
Asteroid Numerals Uncover  
Astronaut Puzzle  
Cloud Numeral Find  
Cloud Object Find  
Cloud Uncover 1  
Cloud Uncover 2  
Cloud Word Find  
Design a Planet Vote 1  
Design a Planet Vote 2  
Design a Planet Vote 3  
Design a Planet Vote 4  
Lady in the Moon Vote  
Man in the Moon Vote  
Moon Find  
Moon Phases Pattern  
Photo Album Sort

Planet Find  
Rocket Fuel Hose Pattern 1  
Rocket Fuel Hose Pattern 2  
Rocket Fuel Hose Pattern 3  
Rocket Fuel Hose Pattern 4  
Rocket Puzzle  
Satellite Puzzle  
Solar System Puzzle  
Space Card Find 1  
Space Card Find 2  
Space Object Find  
Space Pod Sort  
Space Trip Color Sort  
Space Trip Sort  
Star Sort  
Taking Turns: Astronaut Mission 1  
Taking Turns: Astronaut Mission 2  
Taking Turns: Mars Rover Journey 1  
Taking Turns: Mars Rover Journey 2  
Taking Turns: Mars Rover Journey 3  
Telescope Vote  
Weather & Seasons  
Frozen Object Find  
Ice Numeral Find  
Ice Word Find  
Snowman Uncover  
Summer Fun Uncover  
Winter Gear Find 1  
Winter Gear Find 2  
Mathematics

### Shape Recognition

Classroom Rug Shape and Numerals Find 1  
Classroom Rug Shape and Numerals Find 2  
Classroom Rug Shape Find  
Dragon Shape Sort  
Green Slime Shape Uncover  
Painting Shape Find  
Shape Block Pattern 1  
Shape Block Pattern 2  
Shape Soup Find 1  
Shape Soup Find 2  
Tent Shape Sort

### Patterning

Ant Trail Picnic Pattern 1  
Ant Trail Picnic Pattern 2  
Bear Pattern  
Castle Bridge Pattern 1  
Castle Bridge Pattern 2  
Castle Bridge Pattern 3

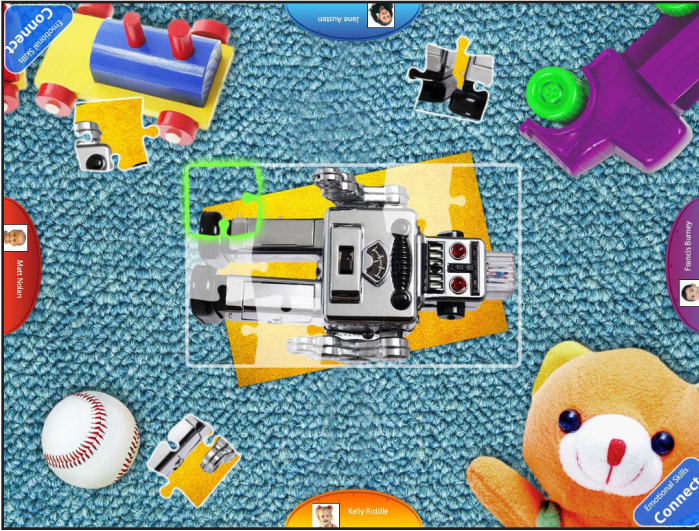
Deer Pattern  
Egyptian Artifact Pattern 1  
Egyptian Artifact Pattern 2  
Egyptian Artifact Pattern 3  
Elephant Footprint Pattern  
Emotional Face Block Pattern  
Erica's Necklace Pattern  
Fruit Pattern 1  
Fruit Pattern 2  
Grandma's Necklace Pattern  
Ice Cream Scoop Pattern 1  
Ice Cream Scoop Pattern 2  
Ice Cream Scoop Pattern 3  
Ice Cream Scoop Pattern 4  
Letter & Number Block Pattern 1  
Letter & Number Block Pattern 2  
Lion Pattern  
Moon Phases Pattern  
Ocean Animal Pattern 1  
Ocean Animal Pattern 2  
Ocean Animal Pattern 3  
Ocean Animal Pattern 4  
Ocean Animal Pattern 5  
Penguin Pattern  
Rocket Fuel Hose Pattern 1  
Rocket Fuel Hose Pattern 2  
Rocket Fuel Hose Pattern 3  
Rocket Fuel Hose Pattern 4  
Shape Block Pattern 1  
Shape Block Pattern 2  
Teacher's Necklace Pattern  
Zebra Footprint Pattern

### Sorting

Baby Sea Creatures Sort 1  
Baby Sea Creatures Sort 2  
Bird & Butterfly Sort  
Butterfly Color Sort  
Butterfly Species Sort  
Classroom Book Sort  
Classroom Objects Sort 1  
Classroom Objects Sort 2  
Classroom Pets Sort 1  
Classroom Pets Sort 2  
Dragon Color Sort  
Dragon Shape Sort  
Dragon Sort 1  
Dragon Sort 2  
Emotional Exhibit Sort  
Emotional Gnomes Color Sort  
Emotional Gnomes Sort  
Emotional Painting Sort  
Eyeglass Store Sort 1

Eyeglass Store Sort 2  
Eyeglass Store Sort 3  
Ladybug Sort  
Lake Cleanup Sort 1  
Lake Cleanup Sort 2  
Lake Recycle Numeral Sort  
Laundry Sort  
Magic Butterfly Sort  
Museum Art Sort 1  
Museum Art Sort 2  
Museum Art Sort 3  
Pet Adoption Sort 1  
Pet Adoption Sort 2  
Pet Adoption Sort 3  
Photo Album Sort  
Refrigerator Magnet Sort 1  
Refrigerator Magnet Sort 2  
Refrigerator Magnet Sort 3  
Refrigerator Magnet Sort 4  
Space Pod Sort  
Space Trip Color Sort  
Space Trip Sort  
Star Sort  
Suitcase Sort  
Tent Color Sort  
Tent Shape Sort  
Tent Size Sort  
Toolbox Sort  
Winged Bug Sort  
Woodland Creature Sort 1  
Woodland Creature Sort 2  
Woodland Creature Sort 3  
Numeral Recognition  
Asteroid Counting Uncover  
Asteroid Numerals Uncover  
Bath Time Number Uncover  
Camping Gear Numeral Find  
Classroom Rug Shape and Numerals Find 1  
Classroom Rug Shape and Numerals Find 2  
Cloud Numeral Find  
Coral Reef Counting Find  
Counting Rug Puzzle  
Green Slime Numeral Uncover  
Ice Numeral Find  
Lake Recycle Numeral Sort  
Letter & Number Block Pattern 1  
Letter & Number Block Pattern 2  
Number Book Uncover  
Number Sound Find

## STEM Samples in WePlaySmart



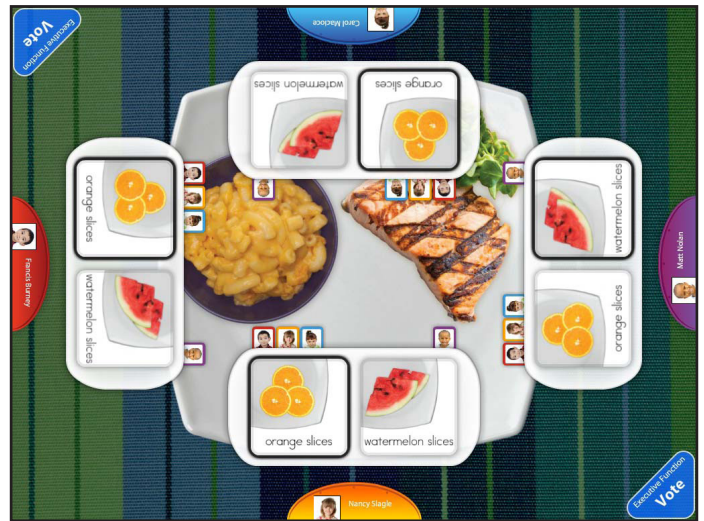
**Connect Puzzle Activity**  
Toy Robot Puzzle



**Find Activity**  
Number Soup Find



**Connect Pattern Activity**  
Fruit Pattern 2



**Vote Activity**  
Dinner Vote

## STEM Samples in WePlaySmart



**Sort Activity**  
Ladybug Sort



**Uncover Activity**  
Healthy Lunch Uncover



**Turns Activity**  
Taking Turns: Sea Turtle Journey